JOURNAL
VOLUME 6 NO. JUNE 1950

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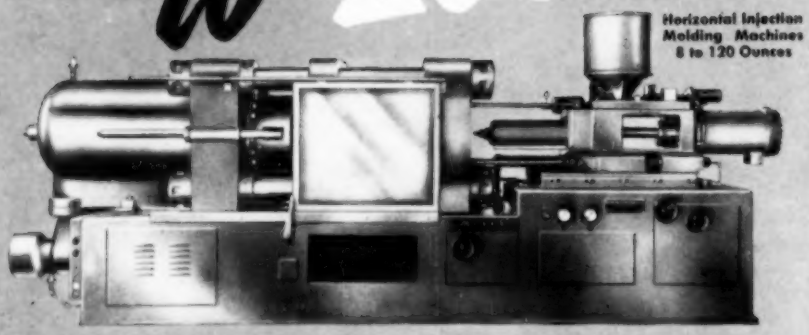

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Personals

Frank E. Tilley has accepted appointment as manager of advertising and sales promotion of the New York Belting & Packing Company. He is a member of the Industrial Marketers of New Jersey and the National Industrial Advertisers Association.

C. H. Madsen has accepted the appointment as assistant to the operations manager, synthetic rubber division, United States Rubber Company.

T. A. McCoy has accepted his new appointment as factory manager of the synthetic rubber plant operated by United States Rubber at Borger, Texas.

Harold J. Edmon, manager of the Naugatuck Aromatics divisions United States Rubber Company, has returned from a six weeks trip through European countries. Mr. Edmon visited suppliers of natural oils and aromatics in France, Italy, Germany and England. While in Grasse he consulted with officials of Bruno Court regarding sales plans for their products which are handled exclusively in the United States and Canada by Naugatuck.

Mr. A. Edward Campi, formerly of American Cyanamid Company is now plant manager for the International Molded Plastics, Inc. **Mr. Williard D. Martin** is now chief engineer.

John Neuman, formerly owner of Newark Plastic Molds, Newark, Ohio has accepted appointment as Plant Manager—in charge of hobbed cavities for plastic and die cast molds, complete molds and engraved cavities—of Midland Die and Engraving Company, Chicago.

Charles Thompson, member of Connecticut Section of S.P.E., received a suggestion award of $1,033. Thompson, who received an initial award payment of $75.00 some time ago, suggested a method of operating the thermoplastic molding machines in his department so as to eliminate the scrapping of a sizeable amount of material. Mr. Thompson has been with the Gilbert Company for 20 years.

William L. Gore of DuPont spoke on "Application of Statistical Quality Control to the Injection Molding of Nylon" at the May 10th meeting of Newark section. The talk was followed by an informal discussion of the current plastics situation in Europe.

We have just received word that **Mr. Harry Temple** of Peru, Indiana died April 4th. Mr. Temple was active in the organization of the Northern Indiana Section.

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Consider

RESILIENCE

for these 2 kinds of moldings

1 LARGE PIECES **2** Pieces molded around METAL INSERTS

The material used in moldings that have large surface areas and those with metal inserts molded-in should have more than average resilience. In the one case, this extra "give" can be even more valuable than added impact strength when parts must withstand hard use and stresses. In the other, the resilience insures a permanent strong bond between plastic and metal.

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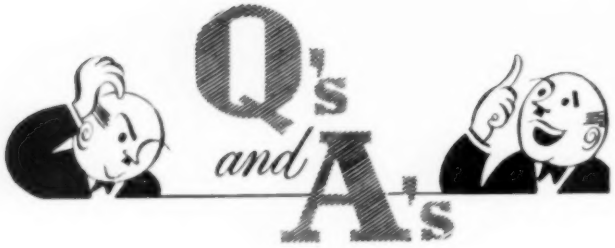


IN SHOP PRACTICE

This column will answer all problems whose solutions are not in violation of trade ethics and which do not trespass on restricted techniques.

PROBLEM 3

How can we make an elastomeric coating having the physical properties of the rubber usually used on printing rolls? This coating, in addition to having the required physical properties, must resist a solution made up of 75% toluene and 25% methyl ethyl ketone.

How about it, SPE members? Have you any suggestions that might help us solve the above problem?

SITUATION WANTED

Position Wanted — Experienced Mold Designer, Mold Maker and Mold Estimator desires position in Plastic Tool Industry. Contact Newark Section Office of S. P. E., 16 Clinton St., Newark, N. J.

Klippings From Kosy

By Walter Kosy

Approximately seventy-five members of the SPE turned out for cocktails and dinner at the May 5 meeting of the Detroit section. Speaker of the evening was Mr. Adam Gabrial of the Acme Scientific Co., Chicago, Ill., who gave an excellent talk, illustrated with slides, on the subject of mold finishing.

There will be no June meeting of the Detroit group. The next meeting of the section will be on July 11 (one week after July 4) at the Orchard Lake Country Club. Facilities for golf, tennis, and swimming will be available to SPE members and prizes will be awarded to participants. Dinner and entertainment will follow in the evening.

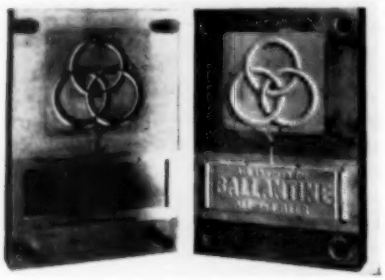
Announcement was recently made by A. J. Bachner, President of Midland Die and Engraving Co., Chicago, that **JOHN NEUMAN**, former partner in the Nu-Engineering Co., of Ferndale, Mich., has become associated with Midland. He will be directly in charge of all operations involving the production of hobbed cavities for plastic and die cast molds, complete molds and engraved cavities.

Previous to his Midland connection, Neuman was the owner and operator of Newark Plastic Molds, of Newark, Ohio, which he established after leaving Detroit.

Friends of **ED ACKERMAN**, former sales representative for the Hercules Powder Co., in the Detroit office, will be interested to know that he has become associated with the Riedl and Freed Advertising Agency in Paterson, New Jersey, in the capacity of Account Executive. Best of luck to you, Ed!

Announcement that the Detroit section will offer three local prizes in the SPE Prize Paper Contest was recently made by Jack Totten, chairman of the Prize Paper Committee. First prize is a $50 Savings Bond, second prize a $25 Savings Bond, and third prize a copy of the **Manual of Plastics and Resins**, a new book on plastics to be published this fall.

Winners in the Detroit section contest will have an opportunity to compete in the National Contest where prizes of $200, $100, and $50, for first, second, and third place respectively will be awarded.



Mold for plastic display sign.

Note: Raised knurled rings with raised engraving on force. This mold called for an unusual combination of mold making techniques.

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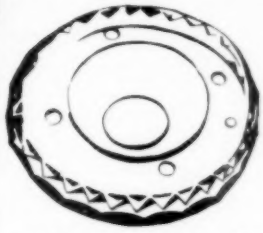

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ALKYD MOLDING COMPOUNDS HAVE RAPID MOLDING CYCLE AT LOW PRESSURES

By Arthur M. Merrill

Approximately 60 members and guests of the New York Section met on May 17 to hear a talk on "Alkyd Molding Compounds" by Michael A. Brown, Jr., sales promotion manager, Plaskon Division, Libbey-Owens-Ford Glass Co. The meeting was held at the Hotel Shelburne, and included a cocktail hour and dinner.

Mr. Brown began his talk with a brief review of the rapid growth of the thermoplastics molding industry because of the high speed molding made possible with the injection machine. Plaskon began work on developing a thermoset material that could be used for high speed molding, and two years ago announced the first such material, Plaskon 420, a mineral-filled alkyd compound. Because of its unique properties, this molding compound has found increasing acceptance and use, and is now selling at the volume expected to be attained in 1953.

The major reason for this growing usage is the ability of alkyd compounds to be molded at high speeds and low pressures. Alkyds require molding times measured in seconds and normal pressures of 800-1,200 p.s.i., although some parts have been molded at pressures as low as 400 p.s.i. These molding characteristics have resulted in the development of new molding machines designed to take full advantage of these properties. Three such machines are now on the market, with two others under development. Plaskon 420 is supplied in two grades: a tan granular form for standard use; and a putty-like form, available in electrical code colors, for molding at even lower pressures and temperatures. The granular form is usually molded at temperatures of 275-350° F., while the putty has been molded at 165° F.

Because of its rapid molding cycles, alkyd compounds require simpler and less bulky molds than do other thermosets; a two-cavity alkyd mold will give the same total production as a six-or eight-cavity mold for other thermosets. This reduction in mold cost and increased productivity of personnel will often make alkyd parts cheaper than phenolic or other thermoset parts, despite the initial high cost of the alkyd molding compound. Other advantages of alkyds, in addition to possessing the usual physical properties of mineral-filled thermosets, are: (1) excellent electrical values and unequaled arc resistance; (2) better dimensional stability than other thermosets, coupled with no after-shrinkage; (3) excellent heat resistance, the material operating continuously at 400° F. and up to 800° F. for short periods without any effect on properties; and (4) excellent resistance to oils, greases, and common chemicals.

Alkyd compounds are not generally recommended for transfer molding because they set up too quickly. Since no gases or other by-products are evolved during the cure, they give parts that are free from porosity. They are suitable for use with inserts because of their excellent flow in the mold, low molding pressures, and freedom from after-shrinkage. The use of molds made of cast steel, iron, or aluminum has been found satisfactory in certain applications, and this subject is worthy of further work. Plaskon is developing other alkyd compounds, Mr. Brown stated, and eventually will have an entire family of molding materials which will provide a wide range of properties.

The meeting was presided over by Section president Sam Silberkraus, Riverdale Laboratory, and the speaker introduced by vice president and program chairman Palmer Humphrey, C. P. Humphrey Plastics. Table favors were distributed through the courtesy of Harold Schwartz, Empire Brush Co., and the meeting closed with a drawing for a door prize contributed by Industrial Hard Chrome Co. through Joseph Rogers.

Section Notes

ROCHESTER

"The Use of Controlled Flow In Injection Molding" was the topic of the talk given before the Rochester Section May 15 by O. A. Westgrave, plastics consultant.

CLEVELAND-AKRON

Mr. Paul O. Powers, Director of Plastics Research at Battella Memorial Institute, spoke on "Recent Developments in Plastics" at the May meeting held May 22nd at the Garden Grill, Akron, Ohio.

GOLDEN GATE

The May Meeting of the Golden Gate Section was held Thursday evening, May 25th at the Bamboo Room of the Drake Wiltshire Hotel. The speaker, Mr. George Harmssen of National Vulcanized Fiber Company, chose as his subject "Vulcanized Fiber —Its Manufacture and Uses." He also showed a picture and answered questions concerning the material.

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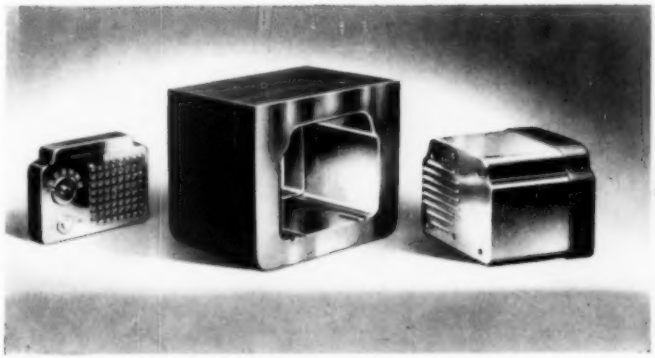

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The following members and guests attended the May meeting and were photographed: Lewis J. Pentland, Chas. d'Emery, William H. Smith, Frank Bailey, Evert Edgar, Paul Foytho, Elias G. Greninger, Eric L. Haffling, Gunnar Lindquist, Rene Magnenat, David Messinger, William C. Monahan, James Orr, Evert O. Quintard, Edwin H. Seim, Chas. Thompson, Andrew Wargo, J. A. Wheeler, Joseph Adamczyk*, Harlan Fisher*, Harry Gosselin, John Kendall*, L. Lepine, Eric Sonderberg*, F. Sutro*, Kenneth Pursak, Dominick Stolfi, U. S. Avery. (*Non-members)

CONNECTICUT REVIEWS TWO YEARS PROGRESS

By Lewis J. Pentland

The second year of its existence has found the Connecticut Section extremely well organized and favored with the potential of becoming one of the foremost Sections of the Society.

The group assembles on the second Friday each month September through May in the Winter Quarters Room of the Hotel Barnum at Bridgeport, Conn. The entire facilities of this pleasant room are at the exclusive disposal of the Section. The prevailing spirit of friendship and genuine New England hospitality is always present with the members and their many guests. The "gatherings" are always well attended dinner meetings, and according to custom are always preceded by a "get-together" social hour.

The active membership is well balanced and made up of men currently engaged in all phases of the plastics industry-production as well as administrative. From January 1, 1950 the membership has increased from 32 to the present enrollment of 51. This has been accomplished by an active committee under the capable guidance of Edwin H. Seim.

During the course of the year the Section has been favored by several excellent after-dinner talks both technical and general in nature on subjects predominant in interest to the Plastics Industry—included on the list has been "Nylon Molding" by Mr. Kenneth Persak—Technical Service Dept. Plastic Div. of DuPont Co.—"Automatic Molding of Thermosetting Materials" by Mr. A. A. Hutchings, Director of Plastic Div. S. J. Stokes Machine Co.—"Trouble Shooting Phenolic Material" by Frank L. Donahue, Service mgr. Plastics Div. Monsanto Chemical Co.

The success in obtaining these speakers, outstanding specialists in their particular field, has been due to the unselfish interest and good work of Charles d'Emery—Chairman of the Program Committee.

The generous donation of time and sound leadership of the officers, together with excellent cooperation of the Board of Directors all have contributed to secure the position of the young "Connecticut Section" among the foremost Sections of the National Society of Plastic Engineers.

EAST NEW ENGLAND HAS SUCCESSFUL YEAR

By J. W. LaBelle

The Eastern New England Section of the Society meets the first Thursday of the month at the Hotel Vendome in Boston. During the past season we had seven very interesting and informative talks in the field of plastics, delivered by some very competent men in their respective fields.

At the October meeting, Dr. Sidney J. Baum of the American Polymer Corporation gave a highly technical talk on "Emulsion Polymerization." During this talk we were given an up to the minute picture on some of the new polymers and copolymers which have been developed through greater knowledge of the emulsion processes.

In November, Mr. Benjamin J. Mayo, District Sales Manager of Imperial Color and Chemical Corporation, talked to us on "Color in Plastics."

Here again we were given a preview as to what the trend might be in coloring.

At the December meeting we had

William J. Miskella, Professional Member of S. P. E., says:
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the pleasure of listening to Dr. W. J. Connelly, Manager of the Consumer Relations Division of the Bakelite Corporation. Mr. Connelly gave us a talk on the "Applications of Bakelite and Vinyl Plastics" and then we were privileged to see the first showing in this country of a British film on "The Nature of Plastics."

After the holidays, we opened up the new year with Fred Langhorst as Program Chairman, and he obtained as the first speaker Mr. H. M. Richardson of DeBell and Richardson Company. Mr. Richardson brought along one of his associates, Stephen King, who gave a demonstration of "Hot Jet Welding of Thermoplastics."

In March, Mr. Carl N. Beetle, President of Beetle Boat Company, took as his subject "Applications of a New Material to Old End Uses." The Beetle Boat Company is probably the leader in the manufacture of laminated fiberglas craft, and Mr. Beetle gave a very optimistic outlook for the future of this versatile material.

In April we heard Dr. Harold Narcus, president of Electrochemicals, Inc. Dr. Narcus has been plating plastics for many years and gave a straight from the shoulder evaluation of the different methods of plating plastics, citing without prejudice the advantages and disadvantages of each method.

The last business meeting was held in May, and we had the pleasure of hearing Mr. Roger Bascom, Rubber Engineer of B. F. Goodrich Chemical Company. Mr. Bascom took as the subject of his talk "The Interdependence of Rubber and Plastics."

These talks comprise the business meetings for the 49-50 season, and socially, we will get together with the Boston-Providence Section of S.P.I. at a June outing at Framingham Country Club.

In an attempt to get to know each other better and to learn more about the companies our members work for, we had one man talk for five or ten minutes on the activities of his company. He obtained this privilege by winning the door prize, donated for the first meeting. Then he was allowed to donate the door prize for the following meeting, and the winner talked about his company. This proved to be a very interesting innovation and made the donation of a door prize automatic. We feel that this was one activity which contributed greatly to the success of all our meetings.

In the off season we plan to put on a vigorous campaign for membership so that the incoming group in January 1951 may have a larger potential membership to form as a strong nucleus for building up the Eastern New England Section to a point where it can adequately handle the '51 Convention slated for Boston.

STATISTICAL APPROACH AIDS SCIENCE OF INJECTION MOLDING—NEWARK

By John Groesbeck

Approximately 50 members and guests attended the regular dinner meeting of the Newark Chapter of S.P.E. on Wednesday May 10th, at the Military Park Hotel. After a short business meeting, Mr. William Gore, Group Leader, Research Lab. of E. I. Du Pont de Nemours, gave a very interesting talk on "Simplified Statistical Approach To Molding Data." It was Mr. Gore's opinion which was also held by men experienced with injection molding problems, that the injection machine represented one of the most difficult pieces of machinery possible to fit into a mass production system. The reason for this was found in the number of variables presented by the design of the heating cylinder, mold, and hydraulic unit which make it practically impossible to instrument a machine built to laboratory specifications so that all of the variables can be accounted for and controlled.

With this in mind, the trend of thinking along the lines of a statistical approach to molding data has been to vary sets of conditions rather than to vary one at a time, in order to minimize the total time required to obtain optimum molding conditions for a given job. This method is based on the designing of experiments, the reduction of data obtained as a result of these experiments, and the calculation of the possibilities for success, given a certain set of conditions. It is believed that this represents the first evidence of a consideration of injection molding as a science rather than an art, and is the beginning of a scientific method by which molding problems can be most efficiently and economically solved. The point must be kept in mind that the years of practical experience must be given due consideration, but when predictions are to be made, these years of experience can best be supplemented by the scientific approach outlined above.

GLASS-POLYESTER PARTS IN WASHING MACHINE GIVES INCREASED EFFICIENCY

By Richard J. Francis

On May 11th in the Granville Inn Mr. A. J. Wiltshire of the Apex Electrical Manufacturing Company in Cleveland traced their experiences in developing, testing and marketing glass-polyester parts for washing machines and other household appliances.

Metals shortages more than three years ago caused Apex to take a long look at the reinforced plastics field for materials to extend their limited metals supply. Now with metals reasonably available, Apex is firmly established in the glass reinforced plastics field, both as a molder and as a user.

Reinforced plastics can not be used economically for all parts of all their appliances, but for many, costs are lower and other advantages are apparent. Generally the parts favored are "deep draws" requiring fibrous glass preforms, accurate and uniform since 1/16" to 3/32" walls are molded in matched metal dies.

Parts are molded inverted. The preform is slipped down over the force, resin is placed over the center portion, and as the mold closes, gravity helps the resin flow. Rather than duplicate exactly the design in metal, many of the parts have been redesigned to take advantage of the unique molding techniques.

Starting with a washing machine tub, bag molded in an electroformed iron mold, Apex changed quickly to matched metal tooling. Early dies were of cast aluminum, but now chrome plated Mechanite is favored for production tooling. An interesting sidelight was the story of a Kirtsite mold. Designed as temporary tooling to provide a few parts for checking a piece design, the die is still going strong after molding 15,000 parts.

Dies are single cavity, of full positive design and landed. Molding pressures are about 200 psi, while molding cycles are 1½ to 3 minutes. Clear polyesters are used for some applications, while others favor a mixture of 40 to 45# of a finely divided, inorganic filler (specific gravity of about 2.5) dispersed in 60 to 55# of resin. All parts are reinforced with fibrous glass.

Flame-hardened Mechanite rings pinch-trim preforms as the mold closes so that parts leaving the mold are accurately to size. One hardened steel ring in another plant has pinch-trimmed 100,000 preforms with no measurable increase in flash thickness.

The audience saw slides and an impressive display of parts molded by Apex. One washing machine assembly weighed 28# in aluminum, while the redesigned part weighed 14# and could be made for half the cost. Reductions in weight provide economies

(Please turn to page 39)

USES OF PHENOLICS DISCUSSED BY SEARER AT TORONTO SECTION MEETING

By J. N. Kempf

The Toronto Section of S.P.E. meeting was held at Wallberg Memorial Building, University of Toronto on the evening of April 25th. The guest speaker for the evening was Dr. J. C. Searer, Director of Application Research on Industrial and Protective Coating Resins of Durez Plastics and Chemicals, Inc.

Mr. Searer first described some of the forms in which phenolic materials could be supplied, their applications and some of their properties. His discussion was highlighted by a compact display of sample items which could be grouped under the following headings;

(a) Friction materials e.g. brake linings and clutch facings.

(b) Casting resins.

(c) Phenolic resins and wood waste e.g. sawdust and wood pulp.

(d) Phenolic resins and insulation materials e.g. Rock Wool, Fiberglas.

(e) Phenolic resins and rubber.

(f) Impregnated and compregnated wood.

(f-1) Composite structural laminates.

(g) Phenolic resins and inorganic materials e.g. abrasives, grinding wheels, etc.

(h) New application for phenolic materials.

Dr. Searer described in detail, illustrated by the samples, numerous proved applications which fell into the above groups. Throughout the discussion many questions were raised by members indicating the interest aroused. Several of the varied and newer processing methods under each heading were brought up for discussion outlining the advantages obtained or problems surmounted. Some of the items discussed included the following:

(a) Bonded brake linings, which were 4 times as strong and gave 50% more wear.

(b) Cast printing plates revealing fine detail; plus foundry match plates which were readily processed and economical to produce.

(c) Wood waste and phenolic resins; illustrated by a strong yet economical building board which could withstand 5000 psi and could be readily fabricated; plus many other items of a composite nature.

(d) Phenolic resins and rubber were exemplified by its application in shoe soles which gave considerably more wear than leather. Problems involved in rubber and phenolic resin compounding were also discussed at this point.

(e) Applications of phenolic resins in abrasives, grinding wheels, etc. The bond in this case enabled the abrasive to withstand more abuse, gave higher heat resistance without gumming and permitted higher surface speeds.

In the field of new phenolic applications, considerable discussion centered around the following;

(A) Foamed phenolic resins.

(B) Precision castings.

(C) New molding compounds.

A stimulating question period followed after an interval during which time the members were able to examine the many phenolic sample items on display and further discuss their applications.

The Secretary informed the members of the following items of interest:

(a) The joint Buffalo-Toronto dinner meeting on June 16th.

(b) Availability of subscriptions for the S.P.E. Journal.

(c) The Toronto Section has been officially recognized by the National Council at its last meeting in Chicago and, would soon receive its official S.P.E. Charter.

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SYNTHETIC FABRICS IS ROCHESTER TOPIC

By C. F. Van Epps

Approximately 90 members and guests attended the meeting on Monday, April 24, at the Rupert Gray's Restaurant. Mr. Gilbert A. Conaway, A. M. Tenney & Associates, New York City discussed "Synthetic Fabrics" with a fashion show illustration with Eastman-Kodak models. His talk described in detail the processes by which synthetic fibers are prepared and illustrated the preparation with colored motion pictures. The processes of dyeing and weaving were illustrated by numerous samples of fabrics. He developed the history of these fabrics through the production of the staple stock, the work of the converters, the garment designers, and finally to the retail market.

The Rochester Section May meeting was held at the Liederkranz Club in Rochester. The speaker was Mr. O. A. Westgaard, Consulting Plastics Engineer, and the subject of his talk was "The Use of Controlled Flow in Injection Molding Thermoplastics." Mr. Westgaard's discussion considered the engineering aspects of viscous flow in relation to the design of molds for injection molding thermoplastics. The relationship of gating to runners was discussed. The development of high pressure by restricted gating and its effect on filling the cavities and positioning of the gating and runners with respect to the cavities were developed in detail. Following the discussion, Mr. Westgaard spent over an hour and a half answering questions. This question and answer period brought out numerous practical problems to which the theories advanced by Mr. Westgaard could be applied.

MIAMI TOURS PLANT

By John L. Russell

Terrace Park Country Club on the outskirts of Cincinnati, O. was the scene of Miami Valley Section's final meeting of the year on Friday, June 16. The occasion was the 3rd annual golf and picnic outing which has grown to be quite an institution for S.P.E. members.

Working earnestly on the Committee and trying to make this event as much a success as previous efforts were the members of the Board of Directors, especially Merle Nelson, Charles Selz, and Martin Kasch. There was golf, softball, horseshoes, refreshments and a dinner in the clubhouse.

On May 4, Miami Valley Section members toured the Sheffield Corp. plant after dinner in the company cafeteria. Sheffield company personnel, who so generously acted as hosts were Bill Wilt, General Sales Manager, and Advertising Mgr., Jack Welsh, and Ted Cooper. All gave excellent talks and demonstrated Sheffield products.

Bob Gerdes won the Mystery Man contest so Charley Selz, Fellowship Chairman, presented him with new golf balls as a prize. The May birthdayites, who took a bow were Joe Merke, Merle Nelson, J. Rawson.

CENTRAL OHIO

(Continued from page 37)

in shipping and distributing, easier portability in hand units, and lower power requirements for rotating and reversing equipment.

Redesigning one washing machine tub increased washing efficiency by a third, and the greatly reduced coefficient of thermal conductivity will keep heat in the water longer. Dimensional stability inherent in the material allows direct, slip-fit assembly of 30" dia. parts. The material is non-denting and has unique coloring possibilities.

While introducing the speaker Clare Bacon related several interesting but incredible events occurring on the Wiltshire farm recently.

Section officers and directors elected at this meeting are:

President ..... Henry W. Kuhlman, Battelle Memorial Institute
President-elect ..... Robert W. Rosel, Yardley Plastics Company
Secretary ..... Clare E. Bacon, Owens-Corning Fiberglas Corporation
Treasurer ..... William J. Braley, Columbus Plastics Products
Directors elected for 3-year term:
Frederick B. Hill, Yardley Plastics Company
Nathan Roop, Columbus Plastics Products
Richard J. Francis, Consulting engineer

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THAYER AT ST. LOUIS

By Dan Otto

At the May 23rd meeting of the St. Louis Section of the Society of Plastics Engineers we had as our speaker Mr. Gordon B. Thayer of the Dow Chemical Co. of Midland, Mich. Mr. Gordon Thayer, as we all know, is a national authority on molding die construction. His talk was one of the best we ever had and all of the large turn-out that attended got a lot of good out of it.

He brought us up to date on pin point gating, molding temperature control, gate balancing and flow control of material within the cavity. This was well illustrated with slides. This was one of the best meetings we have ever had and in a large measure it was due to the fine talk of Mr. Thayer.

We have also had a very active Professional Activities Committee headed by Mr. Otto Wulfert of the Wagner Electric Co.

We have had talks recently by Mr. McDorma of the Presstite Engineering Co., Mr. Seavey of the Western Cartridge Co., Mr. Bob Klorrer of the Spaulding Fibre Co. These men make up papers on their own activities in and around St. Louis and are usually resumes of their own particular experiences with plastics in their field. These talks have been most interesting and informative.

Penn Notes

By Paul Roche

By the next time we go to press we hope to establish definitely whether Bill Phillips (President Presque Isle Plastics, Inc.) is becoming gay in his old age or merely victimized by the whims of the younger generation (who ain't?). Bill has been in evidence this spring cruising around in a new convertible.

Bruno C. Rochel, NOSCO Plastics, has just tied the section reoord (previous title holder, Bob Wilson of Sylvania Elec Products, Warren, Pa.) by adding #5 to the younger generation this May 1950 model puts the girls into majority by 3:2.

In the course of recent expansion and new organizational advancements many of our regular SPE members have taken on added responsibilities. Bob Kling, Chief mechanical engineer, has been called upon to concentrate to an increased degree on resistor and condenser engineering, the increased load in the plastics engineering end being assumed by John Specht and Chuck Catalde. Mike Murphy has at the same time taken on substantially increased responsibilities in the production department, plastics division.

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Industry Notes

NEW DUREZ PHENOLICS

Three new Durez phenolic molding compounds have recently been placed on the market by Durez Plastics & Chemicals, Inc., North Tonawanda, New York. All three fall into the impact type classification and provide either properties or production performance heretofore unavailable. They are Durez 13537 Natural and Durez 14482 Black, both high-impact, fabric-filled materials, and Durez 14658 Black, a nitrile rubber-bearing, wood-flour-filled material.

The two new fabric-filled materials utilize two-step resins, and therefore have greatly improved flow properties and finish and are less critical when electronically preheated.

Durez 13537 Natural has an impact strength of 1.4 foot-pounds per inch on the Izod scale. Its unusually good flow properties allow it to be either compression or plunger molded. It possesses an excellent balance of other mechanical properties and good electrical properties for this type material.

Durez 14482 Black is similar to Durez 13537 but has almost double the impact strength (2.2 foot-pounds per inch). Molding properties are not appreciably affected.

Durez 14658 Black has the moldability of general-purpose materials, but because of its nitrile rubber content, it possesses improved impact strength and shock resistance. Its low modulus of elasticity (0.6×10^6 pounds per square inch in tension) allows it to be used in thin sections around metal inserts. Molded parts are capable of standing repeated abuse without failure. The material can be plunger or compression molded and has good surface appearance.

Complete specifications on these new materials are available from the Company on request.

STOKES 741 FULLY AUTOMATIC MOLDING PRESS NOW INCLUDES VIBRATOR ON FEED ASSEMBLY

The F. J. Stokes Machine Company, Philadelphia, Pa., announce the addition, as standard equipment for their Model 741 completely automatic molding press, a vibrator with controller for the press feeding device.

They also announce their entry into the field of vacuum metallizing with complete equipment for the metal coating of such products as plastics, crystals, glass, paper, textiles, lenses and optical parts, light reflectors, jewelry and ornamental pieces, automotive insignia, etc.

Complete information on the above is available, without obligation, by writing the F. J. Stokes Machine Company, 5900 Tabor Road, Philadelphia 20, Pa.

NEW TEXTILE LAB.

A new $250,000 textile research and development laboratory was opened April 20th by United States Rubber Company at Winnsboro, South Carolina. Development activities at the new laboratory will be closely coordinated with the product control laboratories of the company's mills, with the general laboratories at Passaic, N. J., and the fundamental research conducted by such organizations as the New Orleans laboratory of the United States Department of Agriculture and the Textile Research Institute at Princeton, N. J.

The tires on your car will give you 1,500 to 2,000 miles more wear because of new advances which have been made in the blending of "cold" synthetic rubber and chemicals.

These advances were reported by three United States Rubber Company scientists at the 117th national meeting of the American Chemical Society in Detroit.

The process, which is known as masterbatching, is now being used to produce rubber for tire treads at the synthetic rubber plant operated by U. S. Rubber at Borger, Texas.

PLEXIGLAS MOLDING POWDERS DESCRIBED IN NEW BOOKLET

A new 16-page booklet on Plexiglas acrylic plastic molding powders has been published by Rohm & Haas Company of Philadelphia. Profusely illustrated with photographs of molded end products, many in full color, it covers the manufacturer's complete series of heat resistant, medium-flow, and general-purpose formulations. Copies are available on request to the Plastics Department, Rohm & Haas Co., Washington Square, Philadelphia 5, Pa.

PENNZOIL TO BUILD DERESINING UNIT

The Penzoil Company has awarded to The M. W. Kellogg Company, refinery and chemical engineers of Jersey City, N. J., the contract for a propane-deresining and resin-fractionating unit at its present lube oil plant at Rouseville, Pa., it was announced April 18th. The unit will be designed to charge 1,370 barrels of Pennsylvania reduced crude each day, and is scheduled for completion by the latter part of this year.

DRYCOL OFFERED BY GERING PRODUCTS

To meet molder's increasing interest in coloring styrene in their own plants, Gering products, Inc., Kenilworth, New Jersey, offers Drycol, a carefully formulated and professionally prepared colorant which is dust-free, compact, easy to use; and eliminates costly errors usually associated with weighing bulk dyestuffs. Guess work and uncertainty are removed. Drycol can be used with any crystal styrene—preferably the fine-grind type.

Complete technical service—even to recommending and furnishing blending equipment and patented mixing nozzle—is readily available from Gering.

KAROLLE INDUSTRIES LAWN COASTER

A unique new product for the out-of-doors season is the attractive Karolle Industries lawn coaster which may be "stabbed" into the ground to a convenient height. Beverage glasses are held securely in a coil of steel which is cushioned with a colorful plastic coating. The coasters will not rust, chip or deteriorate when left outdoors. Full particulars on Dekoron tubing are available on request to Samuel Moore & Company, Dekoron Tubing Division, Mantua, Ohio.

REPRODUCIBLE HAMMER FINISH IS ATTAINED WITH ONE-COAT METHOD

A consistently reproducible hammer finish can be applied to metals with a one-coat spray using Duraplex C-55X and Parlon, it has been established by the Resinous Products Division of Rohm & Haas Company, Philadelphia chemicals manufacturer. In the laboratory program just completed, it was found that reproducibility of the hammer pattern is regulated by gun pressure, film thickness, set time and other factors.

NEW ALKYD PRESS MANUFACTURED BY BAKER BROS., INC.

Announcement and display of a new, fully automatic high speed alkyd press was made at the National Plastics Show in Chicago, March 28th thru 31st, by Baker Brothers, Inc., Toledo, Ohio, manufacturers of the new machine.

The main features of the fifteen ton hydraulic press are the greatly increased production rates that can be maintained continuously, and the advantages offered by a self-contained machine requiring only electrical connection and a 75 to 100 lb. air source. The higher production rate is attained through fast opening and closing speeds (approximately 400 inches per minute) and automatic cycling of the machine. The Baker Press requires only periodic loading of powder and removal of the finished parts by the operator. One man can operate a number of machines simultaneously.

MOLDING POWDER BOOKLETS

American Molding Powder and Chemical Corporation has just compiled two folders on the following subjects: (1) Polystyrene Molding Powder, (2) Cellulose Acetate Molding Powder. These brochures contain constructive technical information concerning properties and uses, together with charts and other pertinent material which will be of interest and value to molders and manufacturers of plastics products. Copies will be provided upon request without obligation by writing to H. W. Fairfax Advertising Agency, Inc., 551 Fifth Avenue, New York 17, N. Y.

HERCULES RETAINS DESIGNERS

Hercules Powder Company are retaining Sundberg-Ferar to provide design assistance to users of its plastic materials who are planning new products or a redesign of those in present lines. Since the program began, successful designs have been developed for a variety of plastic products ranging from toys to power tools, and including electric mixers, hair driers, vacuum cleaner parts, and plumbing accessories.

LAMINATED PLASTICS INTRODUCES NEW FIBERGLAS-REINFORCED PRODUCT

Laminated Plastics, Inc., Cleveland, Ohio, has announced a new Fiberglas-reinforced Aklyd base Polyester laminate known as Glastic grade MM.

This new grade of electrical insulation sheet stock is designed to offer the advantages of a Fiberglas-reinforced Polyester Laminate at low cost. Although it is competitive in price with cotton fabric reinforced phenolic laminates, it is superior to this and similar materials in most electrical and physical properties the company said. Outstanding in comparison, are the unusual arc resistance, impact strength and low water absorption properties of this new laminate. Superiority in these properties is even more apparent after exposure to elevated temperatures (125°-150°C.)

NEW BARCO METAL DEGREASER Q 200

Barco Chemical Products Company, manufacturing chemists in Chicago, Illinois announced their newest product, the New Barco Metal Degreaser Q 200.

On most metals or alloys, it is necessary that all grease, oil, waxes, finger marks, moisture etc., be thoroughly removed by a degreasing process before anodizing, applying paint or lacquer, metallizing or electroplating.

Barco Metal Degreaser quicker and thoroughly removes all oil, grease, waxes, etc., dries quickly.

Write for literature and information to Barco Chemical Products Co., 701 S. LaSalle Street, Chicago 5, Illinois.

SUPERIOR PLASTICS BOOK-EASE

The BOOK-EASE is almost a necessity for the student or housewife for supporting text or cook book at the correct reading angle yet leaving the hands free. It is equally well suited for the executive, teacher, researcher, convalescent or just anyone who wants comfort while reading. It is constructed of beautiful SUPERLON plastic with the especially designed well for reading lamp insertion, to get light where you want it.

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